*** STUDENT'S T - TEST *** CROSS- Sectional Area measurement:

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

File Name: 267.FM

AEM 1-5 DFPT R+0 EDL DARK PIBERS VS AEM 1-5 FLIGHT R+0 EDL DARK

Calculated F-ratio = 1.5422 with 4 , 4 degrees of freedom.

The variances are equal since 1.5422 is less than 6.3900

*** RAW DATA ***

1 ====> 2 ====> 3 ====> 4 ====> 5 ====>	4.24 3.87 4.66 3.52 4.09	طاوق 1571 ، 5700	GROUP 2 3.5/ 1158.2100 3 4.04 1248.2900 35 3.6) 1380.4400 38 3.39 1074.2000 38 5.55 1158.1200 30	30°g >9 52 Pt 26
N's	===>	5	5	
Total	===>	6919.8300	6019.2600	. 6
Means	>	1383.9660	1203.8520	13.01907
Sum of squares	===>	83500.0317	54142.3067	
Variances	===>	20875.0079	13535.5767	
Std deviations	===>	144.4819	116.3425	
Calculated val	ue of T	= 2.1711 w	ith 8 degrees of	freedom.

Calculated value of T = 2.1711 with 8 degrees of freedom.

The exact P-value is: 0.0617 or 93.83%

The samples DO differ significantly at the 5% level. ONE-TAILED. The samples do NOT differ significantly at the 1% level. ONE-TAILED.

The samples do NOT differ significantly at the 5% level. TWO-TAILED. The samples do NOT differ significantly at the 1% level. TWO-TAILED.

Experiment ID: 178303

*** STUDENT'S T - TEST *** (MS) - Sectional Avea measuremen

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

File Name: 267.FM

AEM 1-5 DFPT R+0 EDL MODERATE FIBERS VS AEM 1-5 FLIGHT EDL MODERA Calculated F-ratio = 1.0802 with 4 , 4 degrees of freedom.

The variances are equal since 1.0802 is less than 6.3900

*** RAW DATA ***

1 ====> 2 ====> 3 ====> 4 ====> 5 ====>	7.73 6.34 7.26 6.72 6.87	2245.4100	GROUP 2 2075.1900 6 1969.9600 6 2044.2400 5 1841.8700 5 1885.5600 5	·38 ·,35 ·81
N's	===>	5	s	
Total	===>	11824.5800	9816.8200	7.50
Means	===>	2364.9160	1963.3640	10.08,10
Sum of squares	===>	36940.7459	39903.7433	1-
Variances	===>	9235,1865	9975.9358	
Std deviations	>	96.0999	99.8796	
Calculated value	ue of T	= 6.4781 with	8 degrees of	freedom.

The exact P-value is: 0.0002 or 99.98%

The samples DO differ significantly at the 5% level. ONE-TAILED. The samples DO differ significantly at the 1% level. ONE-TAILED.

The samples DO differ significantly at the 5% level, TWO-TAILED. The samples DO differ significantly at the 1% level. TWO-TAILED.

Experiment Title: Electron Microscopy, Light Microscopy, and Protease Activity of Rat Hindlimb Muscles

Principal Investigator: Danny A. Riley

Experiment ID: 178303

*** STUDENT'S T - TEST *** Crass-Sectional Avea Measurement

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

File Name: 267.FM

AEM 1-5 DFPT R+0 EDL LIGHT FIBERS VS AEM 1-5 FLIGHT R+0 EDL LIGHT Calculated F-ratio = 1.7748 with 4 , 4 degrees of freedom.

The variances are equal since 1.7748 is less than 6.3900

*** RAW DATA ***

1 ===> 2 ====> 3 ====> 4 ====> 5 ====>		GROUP 1 1067.04003.33 1049.9500 2.81 1338.0900 3.98 1041.89003.12 1093.2500 3.27	GROUP 2 1178.8400 3.57 1044.5600 3.38 1037.3100 2.72 945.9400 2.98 955.7000 2.93
N's	===>	5	5
Total	===>	5590.2200	5162.3500
Means	===>	1118.0440	1032.4700 7.65
Sum of squares	s ===>	62072.6171	34974.8444
Variances	===>	15518.1543	8743.7111
Std deviations	8 ==≖>	124.5719	93.5078
Calculated val	lue of	r = 1.2285 wi	th 8 degrees of freedom.

The exact P-value is: 0.2542 or 74.58%

The samples do NOT differ significantly at the 5% level. ONE-TAILED. The samples do NOT differ significantly at the 1% level. ONE-TAILED.

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Experiment ID: 178303

*** STUDENT'S T - TEST *** COSS-Sectional Avea Measurement
V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

File Name: 267.FM

RAHF 1-10 DFPT R+0 EDL DARK FIBERS VS RAHF 1-10 FLIGHT R+0 DARK

Calculated F-ratio = 1.3353 with 9, 9 degrees of freedom.

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The variances	are equ	RFR EDLADARY	B53 is less than B A T A ***	avea measureme
		GROUP 1	GROUP 2 \	Body wh
2 ===> 3 ===> 4 ===> 5 ===> 6 ===> 7 ===> 8 ===> 9 ===>	4.37 4.35 5.36 4.17 5.34 4.29 4.58 4.58 5.17	1529.0400 350 1696.5900 359 1786.5400 333 1411.1000 339 1245.6400 333 1455.1700 341 1480.2100 323 1493.6300 326 1607.7500 311 1548.8700 365	1348.3200 334 1495.7100 334 1586.1300 342 1232.8400 297 1182.3100 31 1309.1900 335 1240.9800 230 1241.1800 344 1445.7800 224 1342.3100 337	4.04 4.45 4.04 4.15 3.90 3.70 3.41 4.40 3.98
N's	 >	10	10	. ~
Total	===>	15254.5400	13424.7500	, 99° (°)
Means	-E>	1525.4540	1342.4750	(, , ,
Sum of squares	===>	204159.5690	152897.3023	
Variances	===>	22684.3966	16988.5891	
Std deviations	; ===>	150.6134	130.3403	

Calculated value of T = 2.9051 with 18 degrees of freedom.

The exact P-value is: 0.0094 or 99.06%

The samples DO differ significantly at the 5% level. ONE-TAILED. The samples DO differ significantly at the 1% level. ONE-TAILED.

The samples DO differ significantly at the 5% level. TWO-TAILED.

The samples DO differ significantly at the 1% level, TWO-TAILED.

Experiment ID: 178303

*** STUDENT'S T - TEST *** Cross-sectional Avea Measurements

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

File Name: 267.FM

RAHF 1-10 DFPT R+0 EDL MODERATE FIBERS VS RAHF 1-10 FLIGHT MODERA Calculated F-ratio = 1.1201 with 9 , 9 degrees of freedom.

The variances are equal since 1.1201 is less than 3.1800

*** RAW DATA ***

		GROUP 1	GROUP 2	
1 ====>		2783.0300 795	2308.8700 G.91 1995.0700 5.94	
2 ===>		2475.1200 6.87	1995.0700 5.94	
3 ====>		3015.6900 9.06	2648.1800 7.74	
4 ****>		2299.6800 6.90	1882.5400 634	
5 ====>		2287.6900 ፊ87	2192.0500 705	
6 ====>		2645.8000 7.76	2115.3800 6.3/	
7 ****		2491.3400 P.Tel	2203.1000 6.68	
8 ====>		2311.5700 7.09	1940.6200≤,64	
9 ====>		2822.5700 9,5₹	2417.5800 I.40	
10 ===>		2428.8600 6.65	2008.9200 5.96	
N's	===>	10	10	_
Total	#=#>	25561.3500	21712.3100	
Means	===>	2556.1350	2171.2310	
Sum of squares	===>	566304.2327	505582.5563	
Variances	===>	62922.6925	56175.8396	
Std deviations	===>	250.8440	237.0144	
Calculated valu	ie of	T = 3.5269 with	18 degrees of freedom.	

Calculated value of T = 3.5269 with 18 degrees of freedom.

The exact P-value is: 0.0024 or 99.76%

The samples DO differ significantly at the 5% level. ONE-TAILED. The samples DO differ significantly at the 1% level. ONE-TAILED.

The samples DO differ significantly at the 5% level. TWO-TAILED. The samples DO differ significantly at the 1% level. TWO-TAILED.

Experiment ID: 178303

*** STUDENT'S T - TEST *** Cross-sectional Avea Measuremen

File Name: 267.FM

V2.60 Dec 91 - by Stanley Kaplan, Ph.D.

RAHF 1-10 DFPT R+0 EDL LIGHT FIBERS VS RAHF 1-10 FLIGHT LIGHT EDL Calculated F-ratio = 21.4552 with 9 , 9 degrees of freedom.

The variances are UNequal since 21.4552 is greater than 3.1800

*** RAW DATA ***

1 ===>> 2 ===>> 3 ====>> 4 ====>> 5 ====>> 7 ====>> 8 ====>> 9 ====>		GROUP 1 1578.7100 4.5 1206.7800 3.30 1129.8600 3.31 1028.5300 3.04 -0.0000 -0.0000 1258.1200 3.86 -0.0000 -0.0000	GROUP 2 1173.4200 3.94 996.9500 2.85 974.9600 3.75 936.0800 3.75 933.9400 3.00 1253.0200 3.74 1136.7200 3.44 1057.6500 3.07 1297.9100 4.01 879.8900 2.61
N's	>	10	10
Total	===>	6202.0000 1740.40 %	10640.5400
Means	===>	620.2000	1064.0540 14.
Sum of squares	===>	4019486.3474	187343.1228
Variances	===>	446609.5942	20815.9025
5td deviations	===>	668.2886	144.2772

Calculated value of T = 2.0530 with 10 degrees of freedom.

The exact P-value is: 0.0672 or 93.28%

The samples DO differ significantly at the 5% level. ONE-TAILED.

The samples do NOT differ significantly at the 1% level. ONE-TAILED.

The samples do NOT differ significantly at the 5% level, TWO-TAILED. The samples do NOT differ significantly at the 1% level, TWO-TAILED.